

D804-P80L-2

Acousto-Optic Deflector



1221

(Formerly 1205C-2-804B)

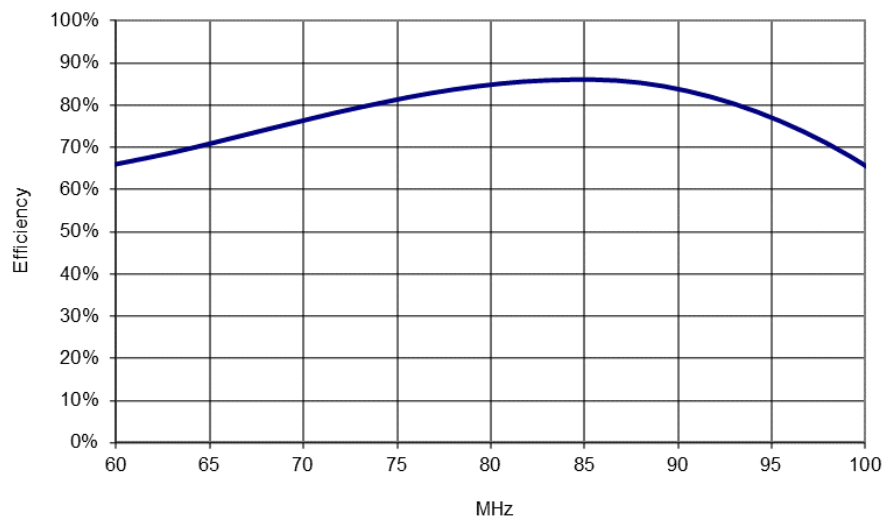
The D804 series are designed primarily for use as low resolution deflectors with NIR laser diodes. The expanded RF bandwidth and large active aperture will also provide the capability for single and double-pass frequency shifting.

SPECIFICATIONS

Operating Wavelength:	633-830nm, or 700-900nm
Active Aperture:	2mm(H) x 6mm(L)
Centre Frequency (f_c):	80MHz
RF Bandwidth (Δf):	40MHz
Input Impedance:	50 ohms (nominal)
Access Time (τ):	1.6 μ sec
$\tau\Delta f$ Resolution:	66 spots
Diffraction Efficiency:	$\geq 85\%$ @ f_c
Static Insertion Loss:	$\leq 5\%$

	633nm	720nm	830nm
Bragg angle (f_c):	7mrad	7.9mrad	9.1mrad
Separation angle (f_c):	14mrad	15.9mrad	18.3mrad
Scan angle (Δf):	7mrad	7.9mrad	9.1mrad
RF Driver power	1.3W	1.6W	2W

TYPICAL PERFORMANCE at 720nm



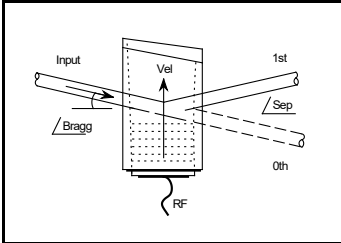
ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA20109, USA.
 Tel: (703) 321 8301 Fax: (703) 321 8546
 E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding

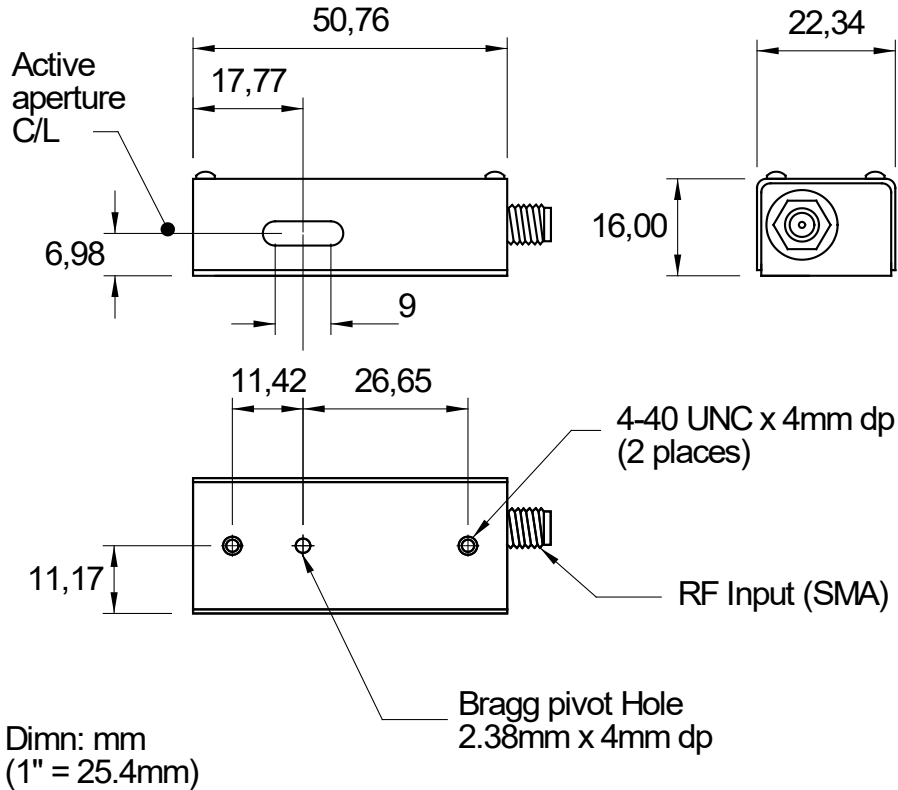
D804-P80L-2

Acousto-Optic Deflector

1221



OUTLINE DRAWING



Option -M , metric mounting threads, M3

DRIVER OPTIONS

Deflector:

VCO based: 630C-80

DDS based: iMS4-L with AF0-80T-4

Frequency Shifter or Modulator:

552F-2

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 ISOMET CORP, 10342 Battlevue Parkway, Manassas, VA20109, USA.
 Tel: (703) 321 8301 Fax: (703) 321 8546
 E-mail: ISOMET@ISOMET.COM Web Page: WWW.ISOMET.COM

Quality Assured.
 In-house: Crystal Growth,
 Optical Polishing,
 A/R coating, Vacuum Bonding